

ABSTRACT OF THE DISCLOSURE

A frame-shaped holding frame which has a small thermal expansion coefficient is used. When a complex member in which a metal material is impregnated in a ceramic material, which has a smaller thermal expansion coefficient than $10 \text{ ppm}/^{\circ}\text{C}$, is used, a warp and a wrinkle are greatly decreased. In particular, in the case of a material with a thermal expansion coefficient of $6.5 \text{ ppm}/^{\circ}\text{C}$ or smaller, the warp and the wrinkle are not caused. When the flexible substrate is adhered to the holding frame by an adhesive, an adhesion area may be obtained so that a sufficient strength is kept. Also, since the flexible substrate is adhered onto the upper surface of the holding frame, the thickness of the holding frame is independent on fixing of the substrate. The thickness may be set so that a mechanical strength is kept and the substrate is smoothly transferred.